

Q Hi Kathleen,

I've been toying around with TVPaint Animation 10 Pro today as you suggested as to get a feel for it. I'm totally fine exporting to H.264 @ 24 fps however the settings for my webcam (Logitech C920) from within TVPaint only has resolutions for 1.77:1 aspect ratio (16:9) except one that is 1.33:1 (640x480 - 4x3). I'm guessing because it's an HD webcam designed for shooting widescreen 16:9.

The problem that I'm having is that when I export to the suggested 720x480 (which is 1.5:1) my output is a tiny bit squished to accommodate the aspect ratio change. I have tried setting my camera "input" to many different resolutions, but of course...they are all 16:9 aspect ratio so it doesn't matter. I would rather not shoot in 640x480 then scale up to 720x540 (4x3) due to quality loss. Will the video being slightly squished be a problem? I would rather it all just be native 720x480, but I am unable to find any way to do this. Any advise would be much appreciated.

Thanks!

Joshua Levesque

See attached for a list of my available resolutions for my Video Input settings from within TVPaint:

ANSWER:

640 X 480 30.00 RGB24
160 X 90 30.00 RGB24
160 X 120 30.00 RGB24
176 X 144 30.00 RGB24
320 X 180 30.00 RGB24
320 X 240 30.00 RGB24
352 X 288 30.00 RGB24
432 X 240 30.00 RGB24
640 X 360 30.00 RGB24
800 X 448 30.00 RGB24
800 X 600 30.00 RGB24
864 X 480 30.00 RGB24
960 X 720 30.00 RGB24
1024 X 576 30.00 RGB24
1280 X 720 30.00 RGB24
1600 X 896 30.00 RGB24
✓ 1920 X 1080 30.00 RGB24
2304 X 1296 2.00 RGB24
2304 X 1536 2.00 RGB24
640 X 480 30.00 I420
160 X 90 30.00 I420
160 X 120 30.00 I420
176 X 144 30.00 I420
320 X 180 30.00 I420
320 X 240 30.00 I420
352 X 288 30.00 I420
432 X 240 30.00 I420
640 X 360 30.00 I420
800 X 448 30.00 I420
800 X 600 30.00 I420
864 X 480 30.00 I420
960 X 720 30.00 I420
1024 X 576 30.00 I420
1280 X 720 30.00 I420
1600 X 896 30.00 I420
1920 X 1080 30.00 I420
2304 X 1296 2.00 I420
2304 X 1536 2.00 I420
640 X 480 30.00 Unknow
160 X 90 30.00 Unknow
160 X 120 30.00 Unknow
176 X 144 30.00 Unknow
320 X 180 30.00 Unknow
320 X 240 30.00 Unknow
352 X 288 30.00 Unknow
432 X 240 30.00 Unknow
640 X 360 30.00 Unknow
800 X 448 30.00 Unknow
800 X 600 30.00 Unknow
864 X 480 30.00 Unknow
960 X 720 30.00 Unknow
1024 X 576 30.00 Unknow
1280 X 720 30.00 Unknow
1600 X 896 30.00 Unknow
1920 X 1080 30.00 Unknow

The short answer is

640 X 480 or 640 X 360 will be ok file size for the online classes.

The Long ANSWER:

Hi Joshua, thanks for your comprehensive question and also for getting started early in the week with testing your gear in the first module.

In my online class I will download clips so that I can review them frame by frame and really get into the animation nuance.. so I really do not want or need big file sizes. We need to keep to the smaller files. Also, working here at my home office... I do not have a huge monitor so prefer the files under 1000 pixels wide. That said I **am more concerned with the FRAME RATE set to 24 FPS** than with the exact aspect ratio of what gets delivered.

I ran your question by David Nethery, an expert TVPAINT user and he will often field the TVP questions for me.

His response confirms my instinct that 640 X 480 or 640 X 360 for delivery to the class will work. Here is the more complete answer. Hope this helps!

Kathleen Quaife

He's saying the Logitech C920 webcam's native aspect ratio is 16:9 , so he would prefer to shoot 16:9 aspect (either 1280 x 720 or 1920 x 1080) .

However exporting to 720 x 480 squishes the image.

He should shoot 16:9 aspect ratio (either 1920 x 1080 or 1280 x 720) and downscale in direct proportion to 640 x 360 when he exports the animation to a Quicktime .mov OR he can downscale to 640 x 480 , which will result in the image being "letterboxed" to retain the correct 16:9 aspect ratio.

Two things:

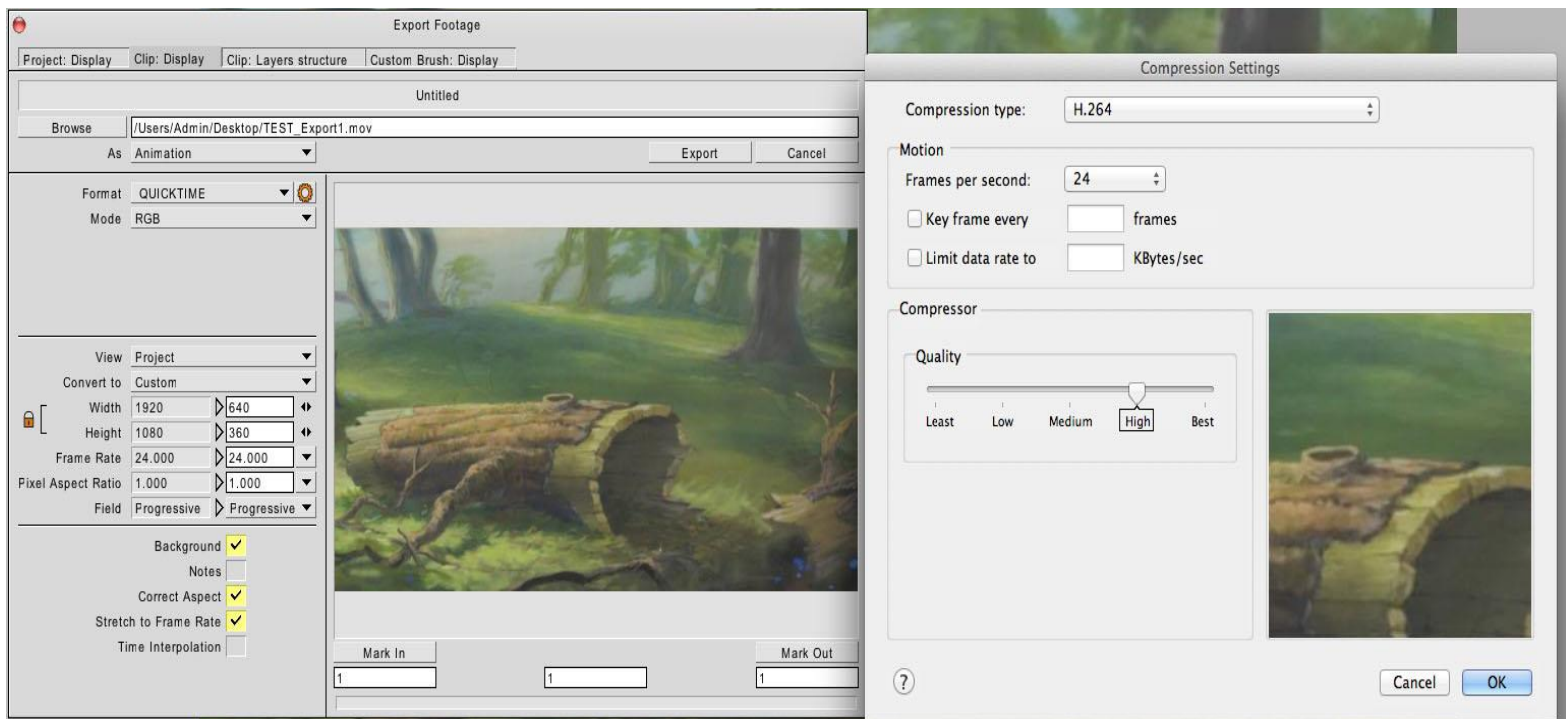
1.) make sure in setting up his TVP project that when he sets it to 1920 x 1080 that the pixel aspect ratio is set to **1.000** and the Field is set to **Progressive**.

2.) then when he exports to Quicktime downscale the 1920 x 1080 (or 1280 x 720) to 640 x 360 , which is directly proportional to the larger size so no "squishing" will occur.

OR

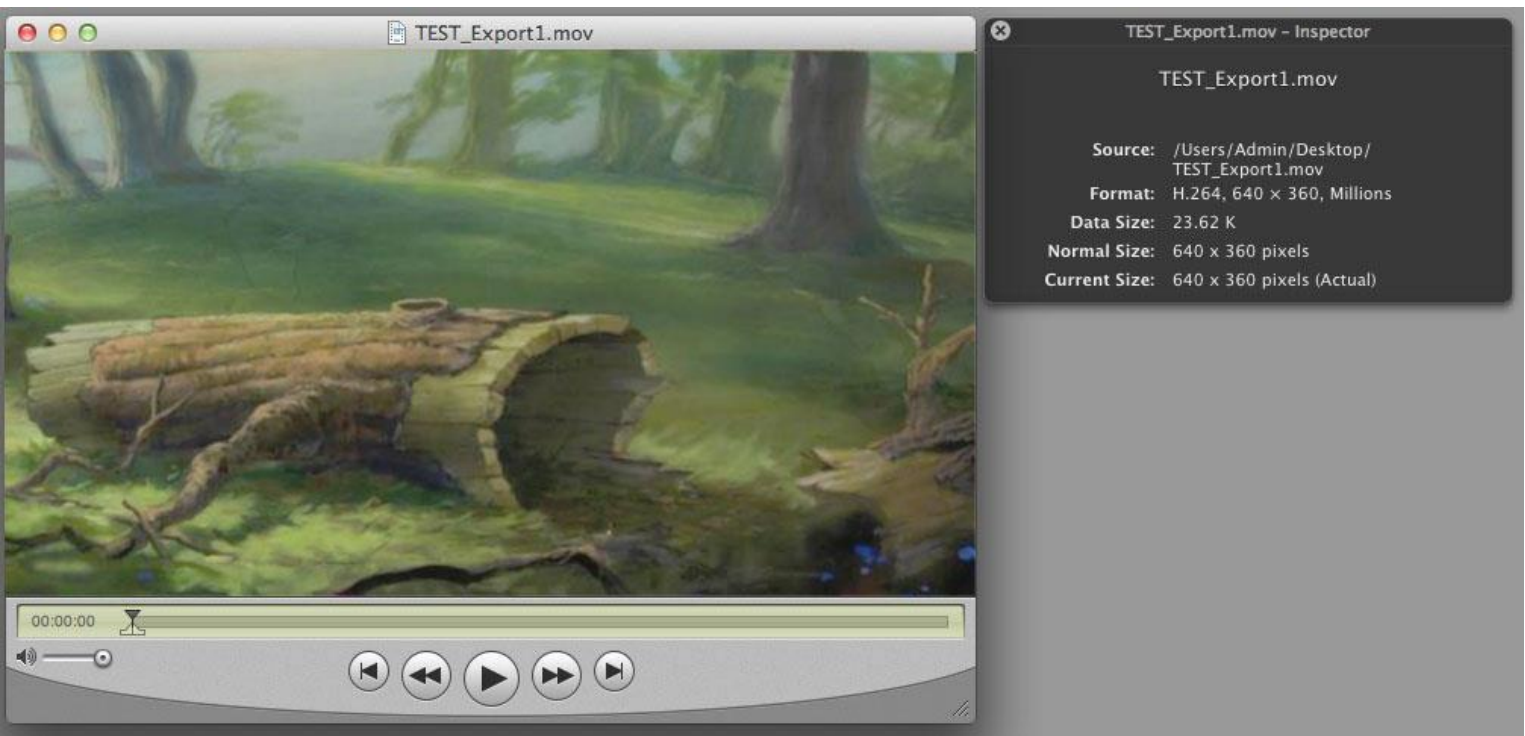
Export to 640 x 480 and TVPaint will automatically insert the black letterbox bars at top and bottom of frame to retain the original 16:9 aspect ratio.

1920 x 1080 downscaled to 640 x 360 , export settings should look exactly like this :

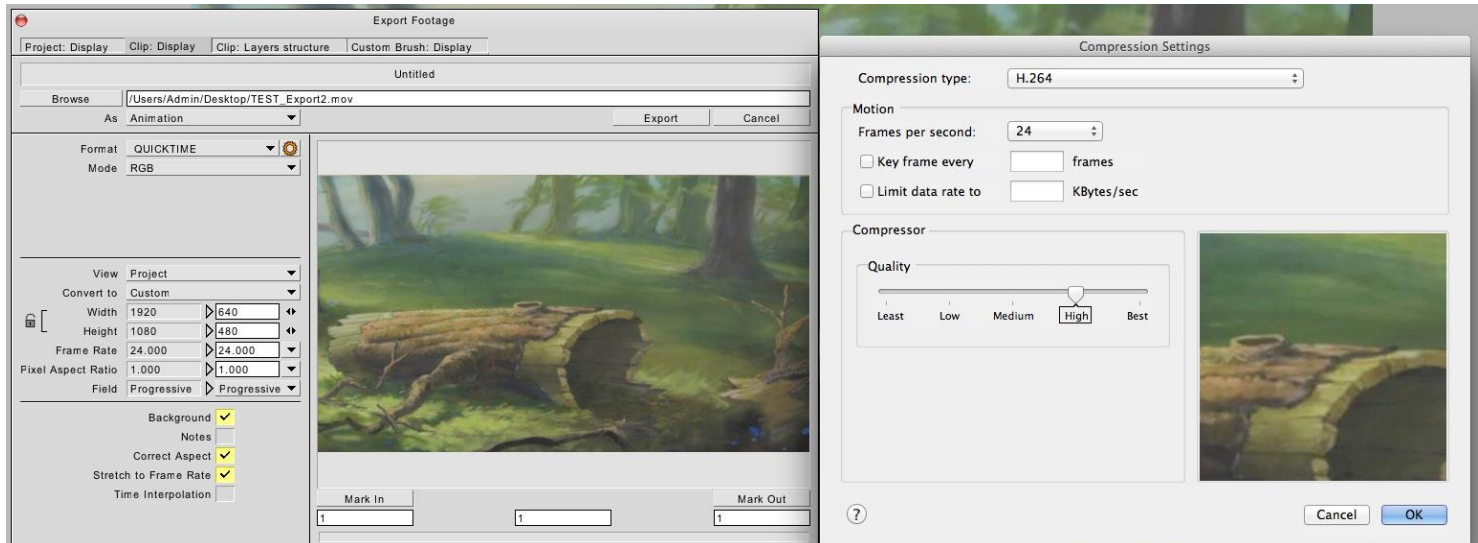


results in this:

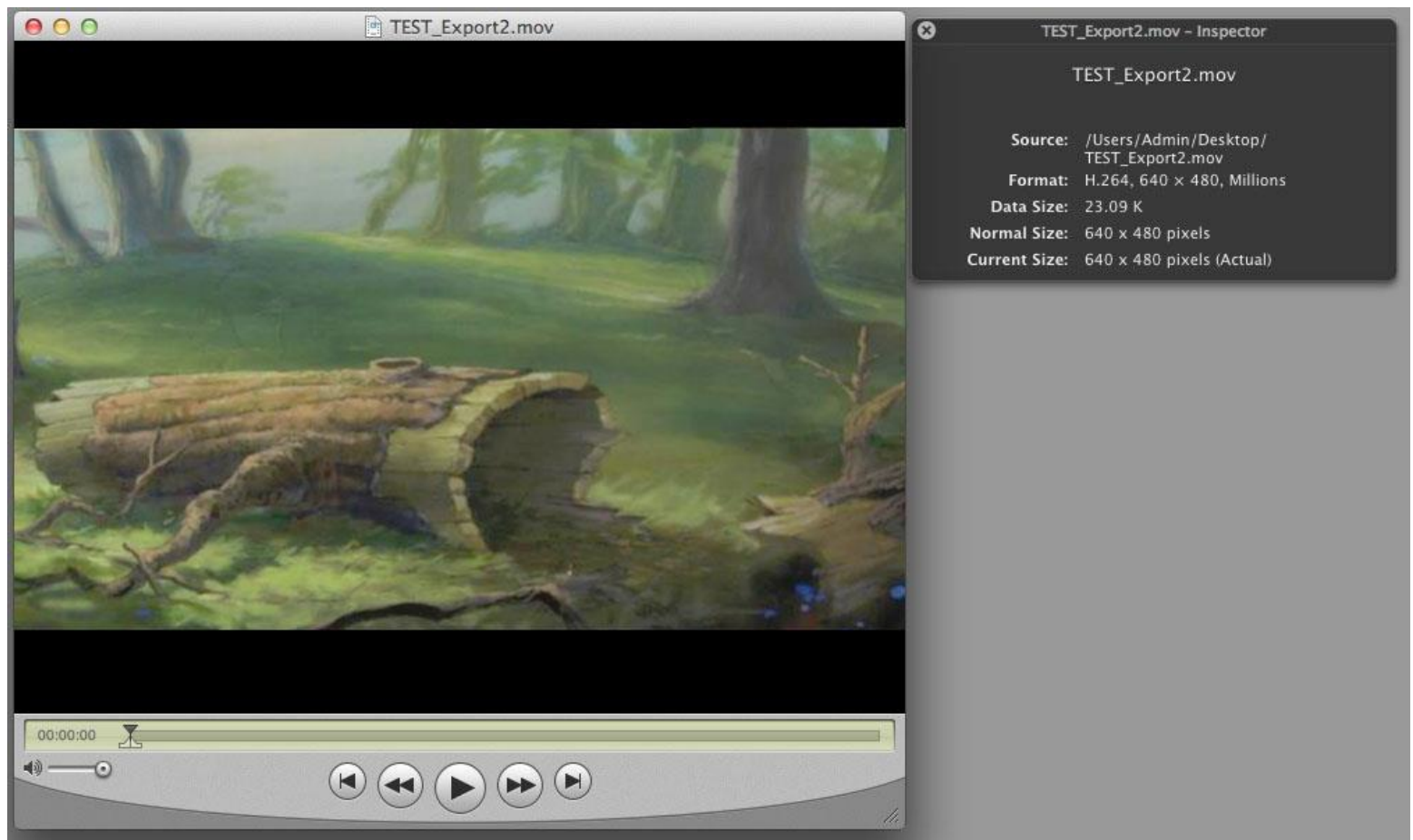
Same aspect ratio (16:9) no squishing , but smaller size makes it easier to upload/download from discussion board.



1920 x 1080 exported to 640 x 480 settings should look exactly like this :



results in this , with letterboxing to retain the correct aspect ratio:



Hope this helps...

Kathleen Quaife and David Nethery